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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------|-------------------------------|----------------------|---------------------|------------------|
| 10/585,890 | 07/12/2006 | Jane E. Tateson | 36-1994 | 7657 |
| 23117 NIXON & VAN | 7590 03/03/201 NDERHYE, PC | EXAMINER | | |
| 901 NORTH G | LEBE ROAD, 11TH F | KUNDU, SUJOY K | | |
| ARLINGTON, VA 22203 | | | ART UNIT | PAPER NUMBER |
| | | | 2863 | |
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| | | | MAIL DATE | DELIVERY MODE |
| | | | 03/03/2010 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|--|---|------------------------------------|-------------------|--|--|--|
| Office Action Summary | | 10/585,890 | TATESON, JANE E. | | | |
| | | Examiner | Art Unit | | | |
| | | SUJOY K. KUNDU | 2863 | | | |
| Period fo | The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1)[7] | Responsive to communication(s) filed on 08 De | ecember 2000 | | | | |
| | Responsive to communication(s) filed on <u>08 December 2009</u> . This action is FINAL . 2b) This action is non-final. | | | | | |
| 3)□ | / | | | | | |
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| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposit | ion of Claims | | | | | |
| 4)🖂 | ☑ Claim(s) <u>1-20</u> is/are pending in the application. | | | | | |
| ,— | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5)□ | S) Claim(s) is/are allowed. | | | | | |
| • | ∑ Claim(s) <u>1-20</u> is/are rejected. | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | |
| 8)□ | Claim(s) are subject to restriction and/or | election requirement | | | | |
| 0)[| are subject to restriction and/or | ciccion requirement. | | | | |
| Applicat | ion Papers | | | | | |
| 9)□ | The specification is objected to by the Examine | r. | | | | |
| 10)⊠ The drawing(s) filed on <u>16 January 2009</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. | | | | | | |
| <i>,</i> — | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| | | | , | | | |
| Priority i | under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. | | | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | |
| 2) Notic | ce of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | ite | | | |
| | mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date | 5) Notice of Informal P. 6) Other: | atent Application | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-10, 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Wan (US 2002/0147024 A1).

With regards to Claim 1, 10, Wan teaches a sensor device having means for periodically generating a measured value of a property (Figure 5, 510, Page 4, Paragraph 53),

comprising means for determining the rate of change in the measured property (Figure 5, 520, Page 4, Paragraph 54) and

means for determining the values of the property being measured by devices similar to said sensor device (Page 4, Paragraph 55, "speed or rate of change of the received signal strength"), and

means for adjusting the periodicity of measurement according to these values it has measured and the values it has received from one or more other devices (Figure 5, 530, Page 7, Paragraph 86).

Note: One ordinary skilled in the art could relate base stations and mobile units are similar devices because both deal with communications.

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With regards to Claim 4, 13, Wan teaches a sensor device wherein the device has means for determining the values being measure by neighbouring devices (Figure 5, 510, Page 4, Paragraph 53) and means for controlling the device to reduce the frequency at which measurements are taken if neighbouring devices are obtaining the same values for the measurements (Page 6, Paragraph 71).

With regards to Claim 5, Wan teaches a sensor device, comprising a transmitter to broadcast the measurements being taken by the device and a receiver to receive such broadcasts from the devices similar to said devices (Figure 3, 120, "transceiver," Page 3, Paragraph 42).

With regards to Claim 6, 14, Wan teaches a sensor comprising means for exchanging data with neighbouring devices for the purpose of relaying it to a data collection point (Figure 3, 130, "storage medium"), the data generated by the device or received from others being stored in a buffer until it can be transmitted (Page 3, Paragraph 42).

With regards to Claim 7, 15, Wan teaches a sensor device, the means for adjusting the periodicity of measurement being responsive to the level of such traffic ("travel") being handled by the device (Pages 5-6, Paragraph 71).

With regards to Claim 8, 16, Wan teaches a sensor device, having means for determining the level of data traffic being carried by one or more neighbouring devices (Figure 5, 510), means for comparing the traffic levels carried by the neighbouring devices with the traffic it is itself carrying (Pages 5-6, Paragraph 71), and means for transmitting control data to other devices if it is carrying less traffic ("slow traffic") that

other devices (Page 5-6, Paragraph 71), and means for receiving such control data from devices identified as carrying less traffic that it is, the control data having the effect of adjusting the times at which the measurements are taken by the device receiving the control data (Pages 6, Paragraph 71).

With regards to Claim 9, 17, Wan teaches a sensor device, wherein the control data generated by the transmitting device controls the receiving device to reduce its data measurement rate ("...30 seconds to every 240 seconds..," Page 6, Paragraph 71).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-3, 11-12, 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wan (US 2002/0147024 A1).

With regards to Claim 2, 11, Wan teaches a sensor device, having means for determining the rate of change of the property being measured (Figure 5, 520, Page 4, Paragraph 54).

Wan teaches the limitations of reducing the frequency at which measurements for the purpose of conserving battery power (Page 6, Paragraph 71).

However, Wan is silent about increasing the frequency with which measurements are taken when the property being measured is changing. However, as stated above,

Wan does teach adjusting the frequency to decrease the time the measurements are obtained for the purpose of conserving battery power (Page 6, Paragraph 71). As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made to increase the frequency to obtain additional measurements so as to provide more accurate data.

With regards to Claim 3, 12, Wan fails to teach the limitation of a sensor device comprising means for calculating the standard deviation of a predetermined number of preceding readings.

Although Wan fails to teach this limitation, the use of such a well known statistical analysis would have been obvious to one of ordinary skill. Specifically, absent a showing of criticality, the use of any well known statistically analysis, such as standard deviation, to process data into a useful form would have been obvious to an artisan to enable a user to make usefully meaning out of a large amount of data to determine the values of the property being measured.

With regards to Claim 18, Wan teaches the limitations of reducing the frequency at which measurements for the purpose of conserving battery power (Page 6, Paragraph 71).

However, Wan is silent about staggering the times at which they take measurements. However as stated above, Wan does teach adjusting the frequency to decrease the time the measurements are obtained for the purpose of conserving battery power (Page 6, Paragraph 71). As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made to increase the frequency to obtain

additional measurements and then reduce the frequency at which measurements for the purpose of conserving battery power in a staggering motion to obtain a range of data for statistical analysis.

With regards to Claims 19 and 20, Wan is silent with regards to each of the plurality of sensor devices is a mobile device. Wan does teach that communications to relay through a base station to other mobile units (Figure 1). However, Wan is silent with regards to the base stations being mobile base stations. As such, it would have been an obvious modification for the base stations to be mobile base stations; thus teaching a plurality of sensor devices being mobile devices.

Response to Arguments

Applicant's arguments filed December 8, 2009 have been fully considered but they are not persuasive.

Applicant request to acknowledge applicant's claim for foreign priority and receipt of certified priority documents. After further review of the file, there is a claim for priority in the file however, there is no documentation with regards to any certified priority documents.

The drawings filed on January 16, 2009 have been accepted by the Examiner.

With regards to Claim 1 and 10 applicant argues that Wan does not teach a sensor device that determines the values of the property being measured by similar device.

Examiner respectfully disagrees with applicant as Wan does teach sensor device that determines the values of the property being measured by similar device. The

dictionary definition of "similar" is having characteristics in common. With the use of the word similar, is non-limiting unless specifically defined in the specification. Upon further review of the specification, there is no specific definition of the word similar. Therefore one of ordinary skill in the art could determine that a base station and a mobile device are similar in many ways. For example, the both are used in communications, they apparatus could be similar in color, or the apparatus could be constructed using similar materials. Additionally, Claim 10 does not use the terminology of similar.

Applicant further argues that Wan does not teach "adjusting the scanning rate of the neighbouring cells," Examiner respectfully disagrees with applicant, as applicant does not claim in either Claim 1 or 10, "adjusting a scanning rate of the neighbouring cells." The applicant does claim, "adjusting the periodicity of measurement according to these values it has measured and the values it has received from one or more other devices," which is taught in Figure 5, 530, Page 7, Paragraph 86.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUJOY K. KUNDU whose telephone number is (571)272-8586. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sujoy K Kundu/ Examiner, Art Unit 2863 February 24, 2010 Drew A. Dunn /Drew A. Dunn/ Supervisory Patent Examiner, Art Unit 2863